

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☐DEEPEN ☒PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☐

OTHER WILDCAT

SINGLE  
ZONE ☒MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Shell Oil Company

## 3. ADDRESS OF OPERATOR

P. O. Box 831, Houston, Texas 77001 - Attn. G. M. Jobe Room 19104

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

600' FWL & 2200' FNL, Section 16  
At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

2 3/4 miles west and 3/4 miles north of the town of Isleta, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

600'

## 16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. on this lease

no other well

## 19. PROPOSED DEPTH

22,000

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5156' KB

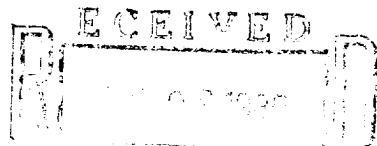
## 22. APPROX. DATE WORK WILL START\*

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Drilling at a total depth of 17,519 feet on March 25, 1980.  
9 5/8" set at 14,580'. Desire to drill to a projected total depth  
of 22,000'. Discussed with Mr. James F. Sims on March 25, 1980.

OIL CONSERVATION DIVISION  
SANTA FE

NOTE: DRILL DEEPEN THAN PREVIOUSLY AUTHORIZED BY APPROVED PERMIT (COPY ATTACHED)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

*G. M. Jobe*

TITLE

Supervisor Regulatory Permits

DATE

3/25/80

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

APPROVED

TITLE

MAR 27 1980

CONDITIONS OF APPROVAL, IF ANY:

APR 7 1980  
*James F. Sims*  
JAMES F. SIMS  
SANTA FE OIL & GAS SUPERVISOR

\*See Instructions On Reverse Side

*ht*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

reverse side)

LOCATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

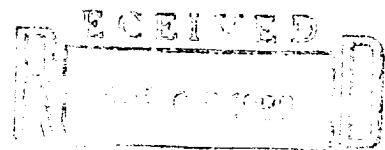
KIND OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. MOOC 142001014	
TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Isleta	
NAME OF OPERATOR Shell Oil Company		7. UNIT AGREEMENT NAME	
ADDRESS OF OPERATOR P. O. Box 831, Houston, Texas 77001		8. FARM OR LEASE NAME Isleta	
LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface		9. WELL NO. No. 2	
At proposed prod. zone 600' FWL & 2200' FNL, Section 16		10. FIELD AND POOL, OR WILDCAT Wildcat	
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 3/4 miles west and 3/4 miles north of the town of Isleta, New Mex.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T8N, R2E, Section 16	
DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 600		12. COUNTY OR PARISH Bernalillo	
DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. on this lease		13. STATE New Mexico	
ELEVATIONS (Show whether DF, RT, GR, etc.) 5131' GR		16. NO. OF ACRES IN LEASE 640	
		17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
		19. PROPOSED DEPTH 18,000	
		20. ROTARY OR CABLE TOOLS Rotary	
		22. APPROX. DATE WORK WILL START* November 1, 1979	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See Attached	Drilling Prognosis - Attachment B			

ATTACHMENTS:

13 Multi-Point Surface Use Plan  
Topo & Road Map - Attachment A  
Drilling Prognosis - Attachment B  
Drilling Equipment Layout - Attachment C  
Survey Record - Attachment D



OIL CONSERVATION DIVISION  
SANTA FE

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

SIGNED E. M. Jobe TITLE Supervisor Regulatory Permits DATE 9/25/79

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

Oil Conservation Division  
State of New Mexico, Attn. Dan Nutter

\*See Instructions On Reverse Side

Operator

U. S. GEOLOGICAL SURVEY  
DURANGO, COLO.

OCT 01 1979

ISLETA #2

CASING DESIGN

<u>STRING</u>	<u>INTERNAL</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>CONN</u>	<u>RATING/SAFETY FACTOR*</u>		
						<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSION</u>
CONDUCTOR	0-500'	20"	94#	H40	STC	520/2.1	1530/2.0	581/15
SURFACE	0-5000'	13 <sup>3</sup> / <sub>8</sub> "	68#	K55	STC	1950/1.0	3450/1.6	718/2.5
INTERMEDIATE	0-13500'	9 <sup>5</sup> / <sub>8</sub> "	47#	95	LTC	7100/1.1	8150/1.6	1053/1.9

\*Safety factors for conductor and surface strings calculated from following loads:

Collapse load: 1/3 drawdown at next casing point.

Burst load: 1/3 BHP at next casing point.

Tensile load: bouyed weight of casing.

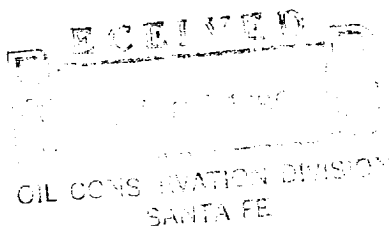
Safety factors for intermediate based on complete evacuation for collapse and estimated maximum SITP for burst.

MUD PROGRAM

Interval: 0-5000'  
Mud Type: Bentonite/lime mud  
9.0± ppg

Interval: 5000' - 13500'  
Mud Type: KCL/Polymer/Bentonite mud 9.0 - 9.5 ppg  
9.0± ppg or as required

Interval: 13500' - T.D.  
Mud Type: Invert Emulsion (water in diesel) mud  
8.5± ppg or as required

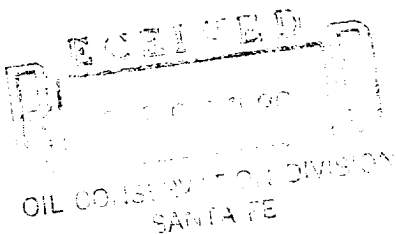


ISLETA #2 - ALBUQUERQUE

Blow out Preventer Configuration

- 0 - 500 - None (Set 20" Surface csg)
- 500 - 5000 - Nipple up 20" 2000 psi Hudril annular
- 5000 - TD - Nipple up on 13 3/8 csg with:
  - 1 - 13 5/8 Shoffer 5000 psi annular preventer
  - 2 - 13 5/8 cameron type "U" 10,000 psi Ram type preventers. Top preventer with blind rams, lower preventer with 4 1/2" Drill Pipe rams
  - 1 - 13 5/8 10,000 psi drilling spool with 2" and 4" flanged outlets with 2 Cameron type F Valves on each outlet in addition to a check valve on kill line.
  - 1 - 13 5/8 Cameron type "U" preventer with 4 1/2" drill pipe rams.

Typical Drawing is attached.





EP-1004-4 (10-79)

SHELL OIL  
COMPANYDRAWING AND CHECK LIST 105  
SHELL CLASS 5MR, 5MS, 5MA  
15,000 psi Working Pressure

SHELL MINIMUM BOP STACK REQUIREMENTS				FURNISHED BY	
No.	Item	Min. I.D.	Min. Nominal	Oper.	Contr.
1	Flowline				
2	Fill up Line		2"		
3	Drilling Nipple				
4	Annular Preventer				
5	Two single or one dual hydraulically operated rams				
6a	Drilling spool with 2" and 3" min. outlets				
	or				
6b	Use ram outlets as alternate to 6a				
7	Valve Gate <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	3-1/8"			
8	Gate Valve Power Operated	3-1/8"			
9	Line to choke manifold		3"		
10	Valves Gate <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	2-1/16"			
11	Check Valve	2-1/16"			
12	Single hydraulically operated ram				
13	Wear flange or bushing				
14	Casing spool				
15	Valves Gate <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	1-13/16"			
16	Flanged control plug or valve	1-13/16"			
17	Compound pressure gauge				
18	Kill line to rig mud pump manifold		2"		

NOTE: Additional specifications for Sour Service and Air-Gas Drilling are  
given in Shell Well Control Manual, Appendix 5.20 and Appendix 5.21.

OPTIONAL					
19	Rotating Blowout Preventer*				
20	Power Operated gate valve	6"			
21a	Drilling spool with 3" outlet				
	or				
21b	3" outlet in ram preventer				
22	Valves Gate <input checked="" type="checkbox"/> Plug <input checked="" type="checkbox"/>	3 1/8"			
23	Auxiliary choke line		3"		
24	Roadside connection to kill line		2"		

